```
SSSSSSSSSSSS   UUU         UUU   MMM           MMM
SSSSSSSSSSSS   UUU         UUU   MMM           MMM
SSSSSSSSSSSS   UUU         UUU   MMM           MMM
SSS            UUU         UUU   MMMMMM     MMMMMM
SSS            UUU         UUU   MMMMMM     MMMMMM
SSS            UUU         UUU   MMMMMM     MMMMMM
SSS            UUU         UUU   MMM  MMM  MMM  MMM
SSS            UUU         UUU   MMM   MMM MMM  MMM
SSS            UUU         UUU   MMM    MMM     MMM
   SSSSSSSSS   UUU         UUU   MMM           MMM
   SSSSSSSSS   UUU         UUU   MMM           MMM
   SSSSSSSSS   UUU         UUU   MMM           MMM
         SSS   UUU         UUU   MMM           MMM
         SSS   UUU         UUU   MMM           MMM
         SSS   UUU         UUU   MMM           MMM
         SSS   UUU         UUU   MMM           MMM
         SSS   UUU         UUU   MMM           MMM
         SSS   UUU         UUU   MMM           MMM
SSSSSSSSSSSS   UUUUUUUUUUUUUUU   MMM           MMM
SSSSSSSSSSSS   UUUUUUUUUUUUUUU   MMM           MMM
SSSSSSSSSSSS   UUUUUUUUUUUUUUU   MMM           MMM
```

```
**FILE**ID**SUMSLP


     SSSSSSSS  UU        UU  MM        MM    SSSSSSSS  LL            PPPPPPPP
     SSSSSSSS  UU        UU  MM        MM    SSSSSSSS  LL            PPPPPPPP
     SS        UU        UU  MMMM    MMMM  SS          LL            PP      PP
     SS        UU        UU  MMMM    MMMM  SS          LL            PP      PP
     SS        UU        UU  MM  MM  MM    SS          LL            PP      PP
     SS        UU        UU  MM  MM  MM    SS          LL            PP      PP
     SSSSSS    UU        UU  MM        MM      SSSSSS  LL            PPPPPPPP
     SSSSSS    UU        UU  MM        MM      SSSSSS  LL            PPPPPPPP
         SS    UU        UU  MM        MM          SS  LL            PP
         SS    UU        UU  MM        MM          SS  LL            PP
         SS    UU        UU  MM        MM          SS  LL            PP
         SS    UU        UU  MM        MM          SS  LL            PP
     SSSSSSSS  UUUUUUUUUU    MM        MM    SSSSSSSS  LLLLLLLLLL    PP
     SSSSSSS   UUUUUUUUUU    MM        MM    SSSSSSSS  LLLLLLLLLL    PP


     MM        MM    AAAAAA      PPPPPPPP
     MM        MM    AAAAAA      PPPPPPPP
     MMMM    MMMM  AA      AA  PP      PP
     MMMM    MMMM  AA      AA  PP      PP
     MM  MM  MM    AA      AA  PP      PP
     MM  MM  MM    AA      AA  PP      PP
     MM        MM  AA      AA  PPPPPPPP
     MM        MM  AA      AA  PPPPPPPP
     MM        MM  AAAAAAAAAA  PP
     MM        MM  AAAAAAAAAA  PP
     MM        MM  AA      AA  PP
     MM        MM  AA      AA  PP
     MM        MM  AA      AA  PP
     MM        MM  AA      AA  PP
```

```
                                    +---------------------------+
                                    ! Object Module Synopsis !
                                    +---------------------------+

Module Name     Ident              Bytes    File                                    Creation Date         Creator
-----------     -----              -----    ----                                    -------------         -------
MAIN            V04-000               62   _$255$DUA28:[SUM.OBJ]SUM.OLB;1           16-SEP-1984 02:12     VAX/VMS Macro V04-00
DATA            V04-000             1829   _$255$DUA28:[SUM.OBJ]SUM.OLB;1           16-SEP-1984 02:12     VAX/VMS Macro V04-00
GETCMD          V04-000              340   _$255$DUA28:[SUM.OBJ]SUM.OLB;1           16-SEP-1984 02:14     VAX/VMS Macro V04-00
UPDATE          V04-000              953   _$255$DUA28:[SUM.OBJ]SUM.OLB;1           16-SEP-1984 02:13     VAX/VMS Macro V04-00
CLI$INTERFACE   V04-000              516   _$255$DUA28:[SYSLIB]STARLET.OLB;2        16-Sep-1984 00:32     VAX-11 Bliss-32 V4.0-742
CLI$GLOBALS     V04-000                0   _$255$DUA28:[SYSLIB]STARLET.OLB;2        15-SEP-1984 23:38     VAX/VMS Macro V04-00
RMS$GLOBALS     V04-000                0   _$255$DUA28:[SYSLIB]STARLET.OLB;2        16-SEP-1984 01:35     VAX/VMS Macro V04-00
SYS$P1_VECTOR   V04-000                0   _$255$DUA28:[SYSLIB]STARLET.OLB;2        16-SEP-1984 00:40     VAX/VMS Macro V04-00
LIBRTL          V04-000                0   _$255$DUA28:[SYSLIB]LIBRTL.EXE;1         16-SEP-1984 04:00     VAX-11 Linker V04-00
SUMSHR          V04-000                0   _$255$DUA28:[SYSLIB]SUMSHR.EXE;1         16-SEP-1984 04:00     VAX-11 Linker V04-00
```

```
                                      +----------------------------+
                                      ! Image Section Synopsis !
                                      +----------------------------+
```

Cluster	Type	Pages	Base Addr	Disk VBN	PFC	Protection and Paging	Global Sec. Name	Match	Majorid	Minorid
DEFAULT_CLUSTER	0	4	00000200	2	0	READ WRITE COPY ON REF				
	0	4	00000A00	6	0	READ ONLY				
	0	1	00001200	10	0	READ WRITE FIXUP VECTORS				
	253	20	7FFFD800	0	0	READ WRITE DEMAND ZERO				
LIBRTL	3	111	00000000-R	0	0	READ ONLY	LIBRTL_001	LESS/EQUAL	1	11
	4	1	0000DE00-R	0	0	READ WRITE DEMAND ZERO	LIBRTL_002	LESS/EQUAL	1	11
SUMSHR	3	12	00000000-R	0	0	READ ONLY	SUMSHR_001	LESS/EQUAL	1	1000
	2	1	00001800-R	0	0	READ WRITE COPY ON REF	SUMSHR_002	LESS/EQUAL	1	1000
	3	1	00001A00-R	0	0	READ ONLY	SUMSHR_003	LESS/EQUAL	1	1000

```
       Key for special characters above:
            +--------------------+
            ! R  - Relocatable !
            ! P  - Protected   !
            +--------------------+
```

```
                              +----------------------------+
                              ! Program Section Synopsis !
                              +----------------------------+
```

Psect Name	Module Name	Base	End	Length		Align	Attributes
$RMSNAM	DATA	00000200	0000020D	0000000E (	14.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,NOVEC
		00000200	0000020D	0000000E (	14.)	BYTE 0	
SUM$RW_DATA	DATA	00000210	00000926	00000717 (	1815.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,NOVEC
		00000210	00000926	00000717 (	1815.)	LONG 2	
$CODE$	CLI$INTERFACE	00000A00	00000C03	00000204 (	516.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD,NOWRT,NOVEC
		00000A00	00000C03	00000204 (	516.)	LONG 2	
SUM$CODE	MAIN	00000C04	00001125	00000522 (	1314.)	BYTE 0	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD,NOWRT,NOVEC
	MAIN	00000C04	00000C41	0000003E (	62.)	BYTE 0	
	GETCMD	00000C42	00000D6C	0000012B (	299.)	BYTE 0	
	UPDATE	00000D6D	00001125	000003B9 (	953.)	BYTE 0	
SUM$RO_DATA	GETCMD	00001128	00001150	00000029 (	41.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR, EXE, RD,NOWRT,NOVEC
		00001128	00001150	00000029 (	41.)	LONG 2	

```
                              +------------------------------+
                              ! Symbol Cross Reference !
                              +------------------------------+

Symbol              Value          Defined By       Referenced By ...
------              -----          ----------       ----------------
CLI$DCL_PARSE       00000ACF-R     CLI$INTERFACE
CLI$DISPATCH        00000B80-R     CLI$INTERFACE
CLI$GET_VALUE       00000A43-R     CLI$INTERFACE    GETCMD
CLI$NEXT_QUAL       00000BC1-R     CLI$INTERFACE
CLI$PRESENT         00000A00-R     CLI$INTERFACE    GETCMD
CLI$_ABSENT         000381F0       CLI$GLOBALS      CLI$INTERFACE
CLI$_COMMA          0003FD39       CLI$GLOBALS      CLI$INTERFACE
CLI$_CONCAT         0003FD29       CLI$GLOBALS      CLI$INTERFACE
CLI$_DEFAULTED      0003FD21       CLI$GLOBALS      CLI$INTERFACE
CLI$_LOCNEG         00038230       CLI$GLOBALS      CLI$INTERFACE
CLI$_LOCPRES        0003FD31       CLI$GLOBALS      CLI$INTERFACE
CLI$_NEGATED        000381F8       CLI$GLOBALS      CLI$INTERFACE    GETCMD
CLI$_NOCOMD         000380B0       CLI$GLOBALS      CLI$INTERFACE
CLI$_PRESENT        0003FD19       CLI$GLOBALS      CLI$INTERFACE
LIB$FREE_VM         00001250-RX    LIBRTL           CLI$INTERFACE    GETCMD
LIB$GET_VM          0000125C-RX    LIBRTL           CLI$INTERFACE
LIB$LP_LINES        00001258-RX    LIBRTL           UPDATE
RAB$L_RHB           0000002C       RMS$GLOBALS      GETCMD
RMS$_EOF            0001827A       RMS$GLOBALS      UPDATE
STR$ANALYZE_SDESC   0000124C-RX    LIBRTL           CLI$INTERFACE
STR$COPY_DX         00001248-RX    LIBRTL           CLI$INTERFACE
STR$FREE_DX         00001254-RX    LIBRTL           GETCMD
SUM$AQ_MSGDES       000007C8-R     DATA             UPDATE
SUM$AT_AUDIT        00000220-R     DATA             UPDATE
SUM$AT_BUFFER       00000238-R     DATA             UPDATE
SUM$AT_INPUTFN      00000358-R     DATA             UPDATE
SUM$AT_LINENE       00000237-R     DATA             UPDATE
SUM$AT_LINENO       00000231-R     DATA             UPDATE
SUM$AT_LISTFN       000003D8-R     DATA
SUM$AT_MSGBUF       000007D4-R     DATA             UPDATE
SUM$AT_OUTPUFN      00000398-R     DATA
SUM$AT_SBTTL        000008A6-R     DATA             UPDATE
SUM$AT_SBTTLDT      000008E2-R     DATA
SUM$AT_SBTTLFS      000008FA-R     DATA             UPDATE
SUM$AT_TITLE        0000081C-R     DATA             UPDATE
SUM$AT_TITLEDT      00000859-R     DATA
SUM$AT_TITLEPN      0000089E-R     DATA             UPDATE
SUM$AW_MSGLEN       000007D0-R     DATA             UPDATE
SUM$AX_CBL          00000337-R     DATA             UPDATE
SUM$AX_INPUTFAB     0000042C-R     DATA             GETCMD           UPDATE
SUM$AX_INPUTNAM     000004A8-R     DATA             UPDATE
SUM$AX_INPUTRAB     00000508-R     DATA             UPDATE
SUM$AX_INPUTXAB     0000047C-R     DATA             UPDATE
SUM$AX_LISTFAB      00000640-R     DATA             GETCMD           UPDATE
SUM$AX_LISTNAM      00000690-R     DATA
SUM$AX_LISTRAB      000006F0-R     DATA             UPDATE
SUM$AX_OUTPUFAB     0000054C-R     DATA             GETCMD           UPDATE
SUM$AX_OUTPUNAM     0000059C-R     DATA
SUM$AX_OUTPURAB     000005FC-R     DATA             GETCMD           UPDATE
```

Symbol	Value	Defined By	Referenced By ...	
SUM$AX_RHB	00000418-R	DATA	GETCMD	UPDATE
SUM$AX_TERMFAB	00000734-R	DATA	MAIN	
SUM$AX_TERMRAB	00000784-R	DATA	MAIN	UPDATE
SUM$CLOSE	00001278-RX	SUMSHR	UPDATE	
SUM$GETCMD	00000C42-R	GETCMD	MAIN	
SUM$GL_CLIADDR	00000210-R	DATA	MAIN	
SUM$GL_FLAGS	0000021C-R	DATA	GETCMD	UPDATE
SUM$GL_UPDATES	00000354-R	DATA	GETCMD	UPDATE
SUM$GQ_CMDLINE	00000214-R	DATA		
SUM$GQ_SBTTLDS	0000089E-R	DATA	UPDATE	
SUM$GQ_TITLEDS	00000814-R	DATA	UPDATE	
SUM$GW_LINENO	00000428-R	DATA	UPDATE	
SUM$GW_PAGENO	00000424-R	DATA	UPDATE	
SUM$GW_PAGESZ	00000426-R	DATA	UPDATE	
SUM$INIT_EDIT	00001270-RX	SUMSHR	UPDATE	
SUM$K_SBTTLLN	00000081	DATA	UPDATE	
SUM$K_TITLELN	00000082	DATA	UPDATE	
SUM$LINE	00001274-RX	SUMSHR	UPDATE	
SUM$OPEN	0000126C-RX	SUMSHR	UPDATE	
SUM$OPEN_ERR	0000127C-RX	SUMSHR	MAIN	UPDATE
SUM$START	00000C04-R	MAIN		
SUM$UPDATE	00000D6D-R	UPDATE	MAIN	
SUM$UPDATE_QUAL	00001268-RX	SUMSHR	GETCMD	
SUM$WRITE_ERR	00001280-RX	SUMSHR	UPDATE	
SYS$ASCTIM	7FFEDE48	SYS$P1_VECTOR	UPDATE	
SYS$CLI	7FFEDE18	SYS$P1_VECTOR	CLI$INTERFACE	
SYS$CLOSE	7FFEE1B8	SYS$P1_VECTOR	UPDATE	
SYS$CONNECT	7FFEE1C0	SYS$P1_VECTOR	MAIN	UPDATE
SYS$CREATE	7FFEE1C8	SYS$P1_VECTOR	UPDATE	
SYS$GETMSG	7FFEE0B0	SYS$P1_VECTOR	UPDATE	
SYS$OPEN	7FFEE208	SYS$P1_VECTOR	MAIN	UPDATE
SYS$PUT	7FFEE188	SYS$P1_VECTOR	UPDATE	
XAB$Q_CDT	00000014	RMS$GLOBALS	UPDATE	

```
+--------------------+
! Symbols By Value !
+--------------------+
```

```
Value                            Symbols...
-----                            ----------
00000014          XAB$Q_CDT
0000002C          RAB$L_RHB
00000081          SUM$K_SBTTLLN
00000082          SUM$K_TITLELN
00000210        R-SUM$GL_CLIADDR
00000214        R-SUM$GQ_CMDLINE
0000021C        R-SUM$GL_FLAGS
00000220        R-SUM$AT_AUDIT
00000231        R-SUM$AT_LINENO
00000237        R-SUM$AT_LINENE
00000238        R-SUM$AT_BUFFER
00000337        R-SUM$AX_CBL
00000354        R-SUM$GL_UPDATES
00000358        R-SUM$AT_INPUTFN
00000398        R-SUM$AT_OUTPUFN
000003D8        R-SUM$AT_LISTFN
00000418        R-SUM$AX_RHB
00000424        R-SUM$GW_PAGENO
00000426        R-SUM$GW_PAGESZ
00000428        R-SUM$GW_LINENO
0000042C        R-SUM$AX_INPUTFAB
0000047C        R-SUM$AX_INPUTXAB
000004A8        R-SUM$AX_INPUTNAM
00000508        R-SUM$AX_INPUTRAB
0000054C        R-SUM$AX_OUTPUFAB
0000059C        R-SUM$AX_OUTPUNAM
000005FC        R-SUM$AX_OUTPURAB
00000640        R-SUM$AX_LISTFAB
00000690        R-SUM$AX_LISTNAM
000006F0        R-SUM$AX_LISTRAB
00000734        R-SUM$AX_TERMFAB
00000784        R-SUM$AX_TERMRAB
000007C8        R-SUM$AQ_MSGDES
000007D0        R-SUM$AW_MSGLEN
000007D4        R-SUM$AT_MSGBUF
00000814        R-SUM$GQ_TITLEDS
0000081C        R-SUM$AT_TITLE
00000859        R-SUM$AT_TITLEDT
0000089E        R-SUM$AT_TITLEPN        R-SUM$GQ_SBTTLDS
000008A6        R-SUM$AT_SBTTL
000008E2        R-SUM$AT_SBTTLDT
000008FA        R-SUM$AT_SBTTLFS
00000A00        R-CLI$PRESENT
00000A43        R-CLI$GET_VALUE
00000ACF        R-CLI$DCL_PARSE
00000B80        R-CLI$DISPATCH
00000BC1        R-CLI$NEXT_QUAL
00000C04        R-SUM$START
00000C42        R-SUM$GETCMD
```

Value   Symbols...
-----   ----------
00000D6D   R-SUM$UPDATE
00001248   RX-STR$COPY_DX
0000124C   RX-STR$ANALYZE_SDESC
00001250   RX-LIB$FREE_VM
00001254   RX-STR$FREET_DX
00001258   RX-LIB$LP_LINES
0000125C   RX-LIB$GET_VM
00001268   RX-SUM$UPDATE_QUAL
0000126C   RX-SUM$OPEN
00001270   RX-SUM$INIT_EDIT
00001274   RX-SUM$LINE
00001278   RX-SUM$CLOSE
0000127C   RX-SUM$OPEN_ERR
00001280   RX-SUM$WRITE_ERR
0001827A   RMS$_EOF
000380B0   CLI$_NOCOMD
000381F0   CLI$_ABSENT
000381F8   CLI$_NEGATED
00038230   CLI$_LOCNEG
0003FD19   CLI$_PRESENT
0003FD21   CLI$_DEFAULTED
0003FD29   CLI$_CONCAT
0003FD31   CLI$_LOCPRES
0003FD39   CLI$_COMMA
7FFEDE18   SYS$CLI
7FFEDE48   SYS$ASCTIM
7FFEE0B0   SYS$GETMSG
7FFEE188   SYS$PUT
7FFEE1B8   SYS$CLOSE
7FFEE1C0   SYS$CONNECT
7FFEE1C8   SYS$CREATE
7FFEE208   SYS$OPEN

        Key for special characters above:
              +--------------------+
              | * - Undefined |
              | U - Universal |
              | R - Relocatable |
              | X - External |
              +--------------------+

```
                                        +------------------+
                                        ! Image Synopsis !
                                        +------------------+

Virtual memory allocated:                  00000200 000013FF 00001200 (4608. bytes, 9. pages)
Stack size:                                        20. pages
Image header virtual block limits:                  1.              1. (     1. block)
Image binary virtual block limits:                  2.             10. (     9. blocks)
Image name and identification:             SUMSLP V04-000
Number of files:                                    6.
Number of modules:                                 10.
Number of program sections:                        10.
Number of global symbols:                         328.
Number of cross references:                       166.
Number of image sections:                           9.
User transfer address:                     00000C04
Number of code references to shareable images:     13.
Image type:                                EXECUTABLE.
Map format:                                FULL WITH CROSS REFERENCE in file _$255$DUA28:[SUM.LIS]SUMSLP.MAP;1
Estimated map length:                              77. blocks
                                        +----------------------+
                                        ! Link Run Statistics !
                                        +----------------------+


Performance Indicators                      Page Faults    CPU Time          Elapsed Time
----------------------                      -----------    --------          ------------
    Command processing:                         129       00:00:00.32        00:00:01.12
    Pass 1:                                     143       00:00:01.69        00:00:13.70
    Allocation/Relocation:                       37       00:00:00.16        00:00:01.20
    Pass 2:                                      39       00:00:00.76        00:00:04.37
    Map data after object module synopsis:       25       00:00:00.64        00:00:00.73
    Symbol table output:                          1       00:00:00.03        00:00:00.87
Total run values:                               374       00:00:03.60        00:00:21.99

Using a working set limited to 1200 pages and 77 pages of data storage (excluding image)

Total number object records read (both passes):   391
    of which 183 were in libraries and 8 were DEBUG data records containing 228 bytes

Number of modules extracted explicitly        = 4
    with 4 extracted to resolve undefined symbols

23 library searches were for symbols not in the library searched

A total of 0 global symbol table records was written

LINK/USERLIB=PROC/EXE=EXE$:SUMSLP/MAP=MAP$:SUMSLP/FULL/CROSS/NOTRACE SYS$INPUT/OPTIONS
LIB$:SUM/INCLUDE=(MAIN,DATA,GETCMD,UPDATE)
PSECT=SUM$RO_DATA,EXE
PSECT=$RMSNAM,NOEXE
```